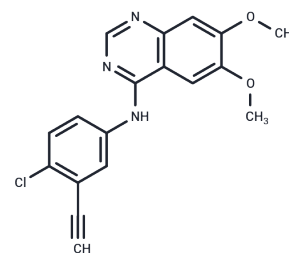


UNC-CA359

Chemical Properties

CAS No. : 2676156-05-9
Formula: C₁₈H₁₄ClN₃O₂
Molecular Weight: 339.78
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	UNC-CA359 is a highly potent inhibitor of the epidermal growth factor receptor (EGFR), demonstrating an IC ₅₀ value of 18 nM. With strong anti-tumor activity, UNC-CA359 holds significant potential for chordoma research [1].
In vitro	UNC-CA359, also referred to as compound 45, demonstrates varying levels of activity across different targets: it is ineffective against U-CH1, partially effective on U-CH2, and strongly inhibits EGFR with IC ₅₀ values of >100 μM, 35 μM, and 18 nM, respectively. When tested in chordoma cell lines for 72 hours at concentrations ranging from 1 nM to 0.1 mM, UNC-CA359 exhibits IC ₅₀ values of 1.2 μM in CH22 and 3.0 μM in U-CH12 cells. Furthermore, it targets three collateral kinases, showing notable potency towards SLK/STK10 with a selectivity ratio over NAK of 22. The binding constants (K _i) for GAK, SLK, and STK10 are 3.4 nM, 0.33 μM, and 0.075 μM, respectively. In a cytotoxicity assay involving various chordoma cell lines and WS1 cells, it showed promising activity against the chordoma cells with IC ₅₀ values of 1.2 μM (CH22), 3.0 μM (U-CH12), 60 μM (UM-Chor1), and 74 μM (U-CH7), while exhibiting no toxicity toward WS1 cells (IC ₅₀ >100 μM).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9431 mL	14.7154 mL	29.4308 mL
5 mM	0.5886 mL	2.9431 mL	5.8862 mL
10 mM	0.2943 mL	1.4715 mL	2.9431 mL
50 mM	0.0589 mL	0.2943 mL	0.5886 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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